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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
10/579,274	10/26/2006	Michael A. Reid	65584(50024)	8867
21874	7590	08/08/2008		
EDWARDS ANGELI, PALMER & DODGE LLP P.O. BOX 55874 BOSTON, MA 02205			EXAMINER	
			HARCOURT, BRAD	
			ART UNIT	PAPER NUMBER
			3676	
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			08/08/2008	PAPER

Please find below and/or attached an Office communication concerning this application or proceeding.

The time period for reply, if any, is set in the attached communication.

Office Action Summary	Application No. 10/579,274	Applicant(s) REID, MICHAEL A.
	Examiner Brad Harcourt	Art Unit 3676

-- The MAILING DATE of this communication appears on the cover sheet with the correspondence address --
Period for Reply

A SHORTENED STATUTORY PERIOD FOR REPLY IS SET TO EXPIRE 3 MONTH(S) OR THIRTY (30) DAYS, WHICHEVER IS LONGER, FROM THE MAILING DATE OF THIS COMMUNICATION.

- Extensions of time may be available under the provisions of 37 CFR 1.136(a). In no event, however, may a reply be timely filed after SIX (6) MONTHS from the mailing date of this communication.
- If NO period for reply is specified above, the maximum statutory period will apply and will expire SIX (6) MONTHS from the mailing date of this communication.
- Failure to reply within the set or extended period for reply will, by statute, cause the application to become ABANDONED (35 U.S.C. § 133).

Any reply received by the Office later than three months after the mailing date of this communication, even if timely filed, may reduce any earned patent term adjustment. See 37 CFR 1.704(b).

Status

1) Responsive to communication(s) filed on 12 May 2008.

2a) This action is FINAL. 2b) This action is non-final.

3) Since this application is in condition for allowance except for formal matters, prosecution as to the merits is closed in accordance with the practice under *Ex parte Quayle*, 1935 C.D. 11, 453 O.G. 213.

Disposition of Claims

4) Claim(s) 1-11 and 21-26 is/are pending in the application.

4a) Of the above claim(s) _____ is/are withdrawn from consideration.

5) Claim(s) _____ is/are allowed.

6) Claim(s) 1, 2, 7-11 and 21-26 is/are rejected.

7) Claim(s) 3-6 is/are objected to.

8) Claim(s) _____ are subject to restriction and/or election requirement.

Application Papers

9) The specification is objected to by the Examiner.

10) The drawing(s) filed on _____ is/are: a) accepted or b) objected to by the Examiner.
 Applicant may not request that any objection to the drawing(s) be held in abeyance. See 37 CFR 1.85(a).
 Replacement drawing sheet(s) including the correction is required if the drawing(s) is objected to. See 37 CFR 1.121(d).

11) The oath or declaration is objected to by the Examiner. Note the attached Office Action or form PTO-152.

Priority under 35 U.S.C. § 119

12) Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f).

a) All b) Some * c) None of:

1. Certified copies of the priority documents have been received.
2. Certified copies of the priority documents have been received in Application No. _____.
3. Copies of the certified copies of the priority documents have been received in this National Stage application from the International Bureau (PCT Rule 17.2(a)).

* See the attached detailed Office action for a list of the certified copies not received.

Attachment(s)

1) Notice of References Cited (PTO-892)

2) Notice of Draftsperson's Patent Drawing Review (PTO-948)

3) Information Disclosure Statement (PTO-1468)
 Paper No./Mail Date 1/22/2008, 5/22/2007

4) Interview Summary (PTO-413)
 Paper No./Mail Date _____

5) Notice of Informal Patent Application

6) Other: _____

DETAILED ACTION

Claim Rejections - 35 USC § 112

The following is a quotation of the second paragraph of 35 U.S.C. 112:

The specification shall conclude with one or more claims particularly pointing out and distinctly claiming the subject matter which the applicant regards as his invention.

Claim 22 is rejected under 35 U.S.C. 112, second paragraph, as being indefinite for failing to particularly point out and distinctly claim the subject matter which applicant regards as the invention.

Claim 22 is ambiguously constructed and indeterminate in scope because it purports to claim both an apparatus and method of using the apparatus in a single claim.

Claim Rejections - 35 USC § 101

35 U.S.C. 101 reads as follows:

Whoever invents or discovers any new and useful process, machine, manufacture, or composition of matter, or any new and useful improvement thereof, may obtain a patent therefor, subject to the conditions and requirements of this title.

Claim 21 is rejected under 35 U.S.C. 101 because it improperly embraces both product and process. The language of 35 U.S.C. 101 sets forth statutory classes of invention in alternative only. See *Ex parte Lyell*, 17 USPQ2d 1549.

Claim Rejections - 35 USC § 102

The following is a quotation of the appropriate paragraphs of 35 U.S.C. 102 that form the basis for the rejections under this section made in this Office action:

A person shall be entitled to a patent unless –

(b) the invention was patented or described in a printed publication in this or a foreign country or in public use or on sale in this country, more than one year prior to the date of application for patent in the United States.

Claims 1, 2, 7-10, 21-24 and 26 are rejected under 35 U.S.C. 102(b) as being clearly anticipated by Rayssiguier et al. (US Patent Application Publication No. 2002/0046834).

In reference to claims 1, 21, 22 and 23, Rayssiguier discloses a plug 1 for controlling fluid flow in a well bore, the plug 1 comprising a substantially cylindrical body 52 adapted for location on a work string, the body 52 including a bore 14 through a portion thereof and one or more radial ports 20a and 20b for passage of fluid from the bore 14 to an outer surface of the body, an actuating member 36 moveable relative to the body 52 so as to cover the one or more radial ports 20a and 20b in a first position and uncover the one or more radial ports 20a and 20b in a second position wherein movement of the actuating member is controlled by an actuating mechanism 36, the mechanism 36 being operable under pressure in the well bore from line 18 to set the plug in a number of states. The different states the plug can be set in (Figs. 4-13) are dependent on index sleeve 134 and index pin 132. Either of the ports 20a or 20b can be closed but openable, locked closed, or open depending on the position of the index sleeve (par. 0071-0079).

In reference to claim 2, actuating mechanism 36 comprises one or more pistons 60 and 128 that are operated on by the applied pressure.

In reference to claim 7, actuating mechanism can include sensors to "transmit information to the control surface" (par. 0144) so that a controller can modify pressure in

control line 18. While Rayssiguier does not explicitly disclose a motor, the presence of a hydraulic line implies that inherently some motor apparatus would have to be involved so that hydraulic fluid could be pumped down hydraulic line 18.

In reference to claims 8 and 10, index sleeve 134 and key 132 secure actuating member 36 in either upper or lower positions.

In reference to claim 9, actuating member 36 includes sleeve 60 and 134.

Claim Rejections - 35 USC § 103

The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all obviousness rejections set forth in this Office action:

(a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negatived by the manner in which the invention was made.

Claims 11 and 25 are rejected under 35 U.S.C. 103(a) as being unpatentable over Rayssiguier et al. (US Patent Application Publication No. 2002/0046834).

Rayssiguier discloses all of the limitations of the above claims with the exception of having a range of pressure of 1200 to 1800 psi or pressure testing the plug. The examiner takes Official Notice that hydraulic operating pressures from 1200 to 1800 psi are common in the art. It would have been obvious to a person having ordinary skill in the art at the time of the invention to have the apparatus of Rayssiguier operable by hydraulic pressures from 1200 to 1800 psi should the wellbore conditions require it. Additionally, it would have been obvious to a person having ordinary skill in the art at

the time of the invention to test the apparatus of Rayssiguier as any product or process should be tested before use.

Allowable Subject Matter

Claims 3-6 are objected to as being dependent upon a rejected base claim, but would be allowable if rewritten in independent form including all of the limitations of the base claim and any intervening claims.

Conclusion

Any inquiry concerning this communication or earlier communications from the examiner should be directed to Brad Harcourt whose telephone number is (571)272-7303. The examiner can normally be reached on Monday through Friday from 8:30 to 6.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Jennifer Gay can be reached on 571-272-7029. The fax phone number for the organization where this application or proceeding is assigned is 571-273-8300.

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see <http://pair-direct.uspto.gov>. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free). If you would like assistance from a USPTO Customer Service Representative or access to the automated information system, call 800-786-9199 (IN USA OR CANADA) or 571-272-1000.

/Jennifer H Gay/
Supervisory Patent Examiner, Art
Unit 3676

BH
7/24/08